PATENT COOPERATION TREATY



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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anslation internal	TIONAL PRELIMINARY EXA	AMINATION REPORT
	(PCT Article 36 and Rule	e 70)
Applicant's or agent's file reference H02040P		Notification of Transmittal of Interniminary Examination Report (Form PCT/IPE.
International application No. PCT/JP2003/004634	International filing date (day/month) 11 April 2003 (11.04.200	
International Patent Classification (IPC) of F16H 61/42, 61/40		2014
Applicant HITAC	CHI CONSTRUCTION MACHIN	JERY CO., LTD.
amended and are the basis 70.16 and Section 607 of		description, claims and/or drawings which har rectifications made before this Authority (see PCT).
3. This report contains indications r		
I Basis of the repo	ort	
II Priority		
	ent of opinion with regard to novelty, inv	entive step and industrial applicability
IV Lack of unity of Reasoned statem		ovelty, inventive step or industrial applicabili
		<u>.</u>
VI Certain documer	in the international application	
' <u>-</u>	tions on the international application	
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Date of submission of the demand	Date of cor	npletion of this report
26 November 2003 (2	26.11.2003)	02 June 2004 (02.06.2004)
Name and mailing address of the IPEA/.	JP Authorized	officer
Facsimile No.	Telephone	

International application No.

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PCT/JP2003/004634

I. Basis of the report									
1. With regard to the elements of the international application:*									
		the inte	national application as originally filed						
	図	the desc	ription:						
	<u> </u>	pages	1,3-16 , as originally filed						
		pages	, filed with the demand						
		pages	2,2/1 , filed with the letter of 09 February 2004 (09.02.2004)						
	\square	the clair							
			ns: , as originally filed						
	· · · · · · · · · · · · · · · · · · ·								
		pages pages	, as amended (together with any statement under Article 19 , filed with the demand						
l		pages	1-11 , filed with the letter of 09 February 2004 (09.02.2004)						
1	\boxtimes	the drav							
		pages	1-14 , as originally filed						
		pages	, filed with the demand						
}		pages	, filed with the letter of						
		he seque	nce listing part of the description:						
		pages	, as originally filed						
		pages	, filed with the demand						
		pages	, filed with the letter of						
2.	the in	th regard to the language, all the elements marked above were available or furnished to this Authority in the language in which international application was filed, unless otherwise indicated under this item. ese elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/							
3.	. With	or 55.3 n regard iminary e). to any nucleotide and/or amino acid sequence disclosed in the international application, the international xamination was carried out on the basis of the sequence listing:						
1 im									
contained in the international application in written form. filed together with the international application in computer readable form.									
	Ħ		ned subsequently to this Authority in written form.						
furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form.									
		The s	tatement that the subsequently furnished written sequence listing does not go beyond the disclosure in the stional application as filed has been furnished.						
		The s	atement that the information recorded in computer readable form is identical to the written sequence listing has urnished.						
4	. 🔲	The ar	the claims, Nos the drawings, sheets/fig						
5	. 🗀		port has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**						
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).									
		•	ent sheet containing such amendments must be referred to under item I and annexed to this report.						

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International application No. PCT/JP03/04634

 V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 						
1. Statement		,				
Novelty (N)	Claims	1-11	YES			
	Claims		NO			
Inventive step (IS)	Claims		YES			
	Claims	1-11	NO			
Industrial applicability (IA)	Claims	1-11	YES			
	Claims		NO			
			_			

2. Citations and explanations

List of documents cited in the ISR

Document 1

JP, 2001-304409, A (Komatsu Ltd.), October 31, 2001 (10.31.01), claims, (Family: none) Document 2

JP, 2000-074213, A (Shin Caterpillar Mitsubishi Ltd.), March 14, 2000 (03.14.00), claims, (Family:

Document 3:

JP, 1-116371, A (Mitsubishi Heavy Industries Ltd., MHI Sagami Hai Tec K.K.), May 9, 1989 (05.09.89), page 2 upper right column lines 5-11, (Family: none)

Document 4

JP, 6-193730, A (Hitachi Construction Machinery Co., Ltd.), July 15, 1994 (07.15.94), paragraph [0050], Fig. 5, (Family: none)

- (1) The inventions described in claims 1-5, 7, 10 and 11 do not appear to involve an inventive step based on document 1 or 2 cited in the ISR. Documents 1 and 2 describe art for decelerating a traveling motor by increasing capacity of the traveling motor when a rotational speed of the traveling motor faster at or above a prescribed value is detected, in order to prevent over-speed of the traveling motor. The prescribed value of said rotational speed and degree of increase in motor capacity can be determined as appropriate by a person skilled in the art. Further, it would be easy for a party skilled in the art to conceive of restoring normal control when the motor speed that had exceeded a prescribed vale falls below the prescribed value due to such motor capacity control.
- (2) The invention described in claim 6 does not appear to involve an inventive step based on documents 1, 2 and 3 cited in the ISR. Document 3 describes art for gradually controlling traveling motor capacity. Adopting the art described in document 3 to the traveling motor control described in document 1 or 2 to conceive of the invention described in claim 6 would be easy for a person skilled in the art.
- (3) The invention described in claim 8 does not appear to involve an inventive step based on documents 1, 2 and 4 cited in the ISR. Document 4 discloses the technical idea of increasing control force by increasing relief pressure of hydraulic oil from the traveling motor in accordance with traveling speed, i.e., with traveling motor rotational speed. It would be easy for a person skilled in the art to conceive of the invention described in claim 8 by applying the technical idea described in document 4 to the deceleration control of the traveling motor described in document 1 or 2.

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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of Box V:

(4) The invention described in claim 9 does not appear to involve an inventive step based on documents 1, 2, 3 and 4 cited in the ISR. Generally, performing gradual control in order to prevent shock is a common art, as can be seen from the descriptions in document 3. Applying the common art described in document 3 and the art described in document 4 to control of the traveling motor as described document 1 or 2 and thus conceiving of the invention described in claim 9 would be easy for a person skilled in the art.

Form PCT/IPEA/409 (Supplemental Box) (July 1998)